



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**D3619-1**

**Job Sheet 169258**



**Part No:** D3619-1

**Job Qty:** 12 ea

**Part Name:** Grommet



**Part Weight:** 0 lbs

**Status:** Scheduled

**Priority:** Medium

**Job Created:** 12/5/17

**Job Tracking No:**

**Due Date:** 12/8/17

**Created By:** Chantal Lavoie

**Type:** Stock

**Description:**

**Note:** DWG REV A IPP Rev:A New Issue 07-04-09 JLM

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation  | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off |
|-------|------------|--------|------------|----------|-----------|---------|-----------------------|-----------|----------|
|       |            |        |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time |          |
| 100   | Purchasing | 12 pcs |            | 12/8/17  | 0.00      | 0.00    | Purchasing            |           | SP 12-8  |
| 110   | Packaging  | 12 pcs |            | 12/8/17  | 0.00      | 0.00    | Packaging2            |           | SP 12-8  |
| 120   | QC         | 12 pcs |            | 12/8/17  | 0.00      | 0.00    | QC6                   |           | SP 12-8  |
| 130   | Packaging  | 12 pcs |            | 12/8/17  | 0.00      | 0.00    | Packaging3-1          | 51043     | 5/10/17  |
| 140   | QC21-SA    | 12 Ea  |            | 12/8/17  | 0.00      | 0.00    | QC21                  |           | 5/10/17  |

Part Op 100 - Issue P/O: 33564 Purchase Part Number: 9610K17

Descriptions: 110 - Ensure material certification is attached

130 - \*\*\*\*Remove supplier paperwork from box.\*\*\*\*\* Location: \_\_\_\_\_

DEC 05 2017

DEC 12 2017  
DAS 13 9:59

### Job Allocations

| Operation      | Component Part | Required | Inventory | Allocated | Std Qty |
|----------------|----------------|----------|-----------|-----------|---------|
| 100-Purchasing | 9610K17        | 12       | 0         | 0         | 0       |

### Part Specifications

Specifications could not be found.

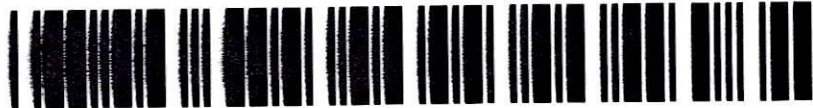
Plex 12/5/17 2:37 PM dart.lavoie.chantal

**DART**  
AEROSPACE  
**S019125**

**Dart Aerospace Ltd.**

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CANADA

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**Grommet**

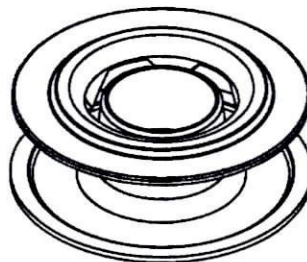
**PART NO: D3619-1**  
**Revision:**  
**Operation: Purchasing**  
**Change No:**

|                                                    |
|----------------------------------------------------|
| <b>Mfg Date: 12/08/17</b><br><b>Job No: 169258</b> |
|----------------------------------------------------|



|                         |                                |                                                          |                        |
|-------------------------|--------------------------------|----------------------------------------------------------|------------------------|
| DESIGN<br><i>LE</i>     | DRAWN BY<br><i>LE</i>          | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA |                        |
| CHECKED<br><i>PH</i>    | APPROVED<br><i>[Signature]</i> | DRAWING NO.<br><b>D3619</b>                              | REV. A<br>SHEET 1 OF 1 |
| DATE<br><b>07.03.26</b> |                                | TITLE<br><b>GROMMET</b><br>SCALE<br>NTS                  |                        |
| REV<br>A                | DATE<br>07.03.26               | DESCRIPTION<br>NEW ISSUE                                 |                        |

## SPECIFICATION CONTROL DRAWING



**RELEASED**  
07 04 02 #

**D3619-X GROMMET,**  
**WHERE X REPRESENTS THE GROMMET TRADE SIZE**

| DART P/N | TRADE SIZE | DESCRIPTION            | HOLE SIZE | MAX. MTL THICKNESS | MCMMASTER CARR P/N |
|----------|------------|------------------------|-----------|--------------------|--------------------|
| D3619-0  | 0          | BRASS GROMMET W/ TEETH | 1/4       | 0.110              | 9610K16            |
| D3619-1  | 1          | BRASS GROMMET W/ TEETH | 9/32      | 0.120              | 9610K17            |
| D3619-2  | 2          | BRASS GROMMET W/ TEETH | 3/8       | 0.150              | 9610K18            |
| D3619-3  | 3          | BRASS GROMMET W/ TEETH | 7/16      | 0.230              | 9610K19            |
| D3619-4  | 4          | BRASS GROMMET W/ TEETH | 1/2       | 0.300              | 9610K21            |

**NOTES:**

1) PURCHASE INFO: MCMMASTER-CARR P/N'S INCLUDE THE FOLLOWING:

48 GROMMETS FOR SIZE 0 & 1,  
24 GROMMETS FOR SIZE 2, 3 & 4,  
D3619-XT1 HOLE PUNCH,  
D3619-XT2 STRIKER BLOCK,  
D3619-XT3 PUNCH AND  
D3619-XT4 DIE

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

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| Items                  |           |                                        |        |          |                |                   |         |                         |                |
|------------------------|-----------|----------------------------------------|--------|----------|----------------|-------------------|---------|-------------------------|----------------|
| Line Item              | Part      | Description                            | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD)        | Extended Price |
| 16                     | 98381A648 | Dowel Pin                              | Firmed | 12/7/17  | 3 Ea           | 0 Ea              | 3 Ea    | \$9.22/Ea               | \$27.66        |
| 17                     | 6605K56   | Hook And Loop Tie                      | Firmed | 12/7/17  | 10 pcs         | 0 pcs             | 10 pcs  | \$2.94/pcs              | \$29.40        |
| Line Item Note b169255 |           |                                        |        |          |                |                   |         |                         |                |
| 18                     | 6718K52   | Fitting, Quick Disconnect              | Firmed | 12/7/17  | 8 pcs          | 0 pcs             | 8 pcs   | \$5.64/pcs              | \$45.12        |
| Line Item Note b169256 |           |                                        |        |          |                |                   |         |                         |                |
| 19                     | 92311A564 | Set Screw                              | Firmed | 12/7/17  | 50 pcs         | 0 pcs             | 50 pcs  | \$0.233/pcs             | \$11.65        |
| Line Item Note b169257 |           |                                        |        |          |                |                   |         |                         |                |
| 20                     | 9610K17   | Grommet receive ea                     | Firmed | 12/7/17  | 12 pcs         | 0 pcs             | 12 pcs  | \$12.90/pcs             | \$154.80       |
| Line Item Note b169258 |           |                                        |        |          |                |                   |         |                         |                |
| 21                     | 9610K18   | Grommet receive ea                     | Firmed | 12/7/17  | 6 Ea           | 0 Ea              | 6 Ea    | \$13.31/Ea              | \$79.86        |
| Line Item Note b169259 |           |                                        |        |          |                |                   |         |                         |                |
| 22                     | 9753K31   | Cap receive ea                         | Firmed | 12/7/17  | 100 Ea         | 0 Ea              | 100 Ea  | \$0.0306/Ea             | \$3.06         |
| Line Item Note b169260 |           |                                        |        |          |                |                   |         |                         |                |
| 23                     | D3373-1R  | Cam Lock<br>MCMaster P/N: p/n: 1770A51 | Firmed | 12/7/17  | 10 pcs         | 0 pcs             | 10 pcs  | \$6.61/pcs              | \$66.10        |
| Line Item Note b169261 |           |                                        |        |          |                |                   |         |                         |                |
|                        |           |                                        |        |          |                |                   |         | Grand Total: \$1,269.03 |                |

## Order Notes

DWG REV C

DWG REV A

DWG REV A

## Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 12/5/17 2:50 PM dart.lavoie.chantal



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Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
**PO038564**

Order Placed By  
**Chantal Lavoie**

McMaster-Carr Number  
**4287699-01**

| Line | Product                                                                                                                                       | Ordered      | Shipped |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|
| 1    | <b>7216K5</b> ✓ Straight-Blade Connector, Hinged, 3-Blade Plug, Grounded, NEMA 5-15, Yellow                                                   | ✓ 12<br>Each | ✓ 12    |
| 2    | <b>7216K6</b> ✓ Straight-Blade Connector, Hinged, 3-Slot Socket, Grounded, NEMA 5-15, Yellow                                                  | ✓ 12<br>Each | ✓ 12    |
| 3    | <b>91732A787</b> ✓ Stainless Steel Helical Insert, M8 x 1.25 Thread Size, 20 mm Long, Packs of 10                                             | ✓ 2<br>Packs | ✓ 2     |
| 4    | <b>75935A651</b> ✓ 3M VHB Foam Tape - Adhesive on Both Sides, #4930, 1/2" Width x 72 Yards Length, .025" Thick                                | 1<br>Each    | 1       |
| 5    | <b>6641A41</b> ✓ Flexible Gasket Maker Sealant, Loctite 598, 2.36 oz. Tube                                                                    | ✓ 8<br>Each  | ✓ 8     |
| 6    | <b>6519T14</b> ✓ Ultra-Chemical-Resistant Versilon PVC Tubing, 3/8" ID, 9/16" OD, 25 Feet Long                                                | ✓ 25<br>Feet | ✓ 25    |
| 7    | <b>6541K38</b> ✓ Vibration-Resistant Zinc-Plated Steel Double Pinch Clamps, 31/64" to 19/32" ID, for Firm Hose and Tube, Packs of 25          | ✓ 1<br>Pack  | ✓ 1     |
| 8    | <b>8485T13</b> ✓ Incandescent-Illuminated Magnifying Glass, 10x, 1-1/4" Long x 1-3/8" Wide Lens                                               | ✓ 1<br>Each  | ✓ 1     |
| 9    | <b>90145A630</b> ✓ 18-8 Stainless Steel Dowel Pin, 3/8" Diameter, 1-3/4" Long, Packs of 5                                                     | ✓ 2<br>Packs | ✓ 2     |
| 10   | <b>91251A435</b> ✓ Black-Oxide Alloy Steel Socket Head Screw, 1/4"-28 Thread Size, 3/8" Long, Packs of 50                                     | ✓ 1<br>Pack  | ✓ 1     |
| 11   | <b>9368T43</b> ✓ High-Temperature Dry-Running Sleeve Bearing, SAE 841 Bronze, for 3/16" Shaft Diameter, 5/16" OD, 1/2" Length                 | ✓ 4<br>Each  | ✓ 4     |
| 12   | <b>94125K815</b> ✓ DIN 17223 & 2095 Precision Compression Spring, Closed and Flat End, 44.5 mm Overall Length, Packs of 5                     | ✓ 1<br>Pack  | ✓ 1     |
| 13   | <b>9567K21</b> ✓ Rigid Plastic Push-on Round Caps for 5/8" OD, Packs of 100                                                                   | ✓ 1<br>Pack  | ✓ 1     |
| 14   | <b>97447A010</b> ✓ Aluminum Blind Rivets with Aluminum Mandrel, Domed Head, 1/8" Diameter, for 0.032"-0.062" Material Thickness, Packs of 250 | ✓ 1<br>Pack  | ✓ 1     |
| 15   | <b>98381A648</b> ✓ Dowel Pin, Alloy Steel, 3/8" Diameter, 6" Long, Packs of 1                                                                 | ✓ 3<br>Packs | ✓ 3     |
| 16   | <b>6605K56</b> ✓ Hook and Loop Cable Ties, 24" Overall Length, Meets UL 94V2, Packs of 5                                                      | ✓ 2<br>Packs | ✓ 2     |
| 17   | <b>6718K52</b> ✓ 303 Stainless Steel Industrial-Shape Air Hose Coupling, Plug, 1/4 Coupling Size, 1/4 NPTF Female End                         | ✓ 8<br>Each  | ✓ 8     |
| 18   | <b>92311A564</b> ✓ 18-8 Stainless Steel Cup-Point Set Screw, 1/4"-28 Thread, 1" Long, Packs of 50                                             | ✓ 1<br>Pack  | ✓ 1     |
| 19   | <b>9610K17</b> ✓ Fabric Grommet Kit with Tooth Lock Washers, Trade Size 1, for 0.12" Maximum Thickness                                        | ✓ 12<br>Each | ✓ 12    |

DAW  
38  
9-85

SPR 127



McMaster-Carr Supply Company  
 200 Aurora Industrial Pkwy  
 Aurora, OH 44202-8087 USA  
 Phone: 330-995-5500 Fax: 330-995-9600  
 E-Mail: cle.sales@mcmaster.com  
 Employer Identification Number (EIN): 36-1458720

Invoice: 51655282  
 Purchase Order: PO038564  
 Release:  
 McMaster-Carr Number: 4287699-01

ORIGINAL COMMERCIAL  
**INVOICE**  
 CERTIFICATE OF ORIGIN

| Line | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Qty & Unit | Unit Price | Extension |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|-----------|
| 17   | 6718K52 303 Stainless Steel Industrial-Shape Air Hose Coupling, Plug, 1/4 Coupling Size, 1/4 NPTF Female End<br><br>Country of Origin: United States<br>Schedule B #: 848190<br>ECCN #: 2B999 NLR                                                                                                                                                                                                                                                                                                                                                           | 8 EA       | \$5.64     | \$45.12   |
| 18   | 92311A564 18-8 Stainless Steel Cup-Point Set Screw, 1/4"-28 Thread, 1" Long, Packs of 50<br><br>Country of Origin: Taiwan<br>Schedule B #: 731815<br>ECCN #: EAR99 NLR                                                                                                                                                                                                                                                                                                                                                                                      | 1 PK       | \$11.65    | \$11.65   |
| 19   | 9610K17 Fabric Grommet Kit with Tooth Lock Washers, Trade Size 1, for 0.12" Maximum Thickness<br><br>Country of Origin: United States<br>Schedule B #: 820559<br>ECCN #: EAR99 NLR                                                                                                                                                                                                                                                                                                                                                                          | 12 EA      | \$12.90    | \$154.80  |
| 20   | 9610K18 Fabric Grommet Kit with Tooth Lock Washers, Trade Size 2, for 0.15" Maximum Thickness<br><br>Country of Origin: United States<br>Schedule B #: 820559<br>ECCN #: EAR99 NLR                                                                                                                                                                                                                                                                                                                                                                          | 6 EA       | \$13.31    | \$79.86   |
| 21   | 9753K31 Flexible Vinyl Push-on Round Caps for 1/8"-3/16" OD, 1/2" Inside Height, Packs of 100<br><br>Country of Origin: United States<br>Schedule B #: 392350<br>ECCN #: EAR99 NLR                                                                                                                                                                                                                                                                                                                                                                          | 1 PK       | \$3.06     | \$3.06    |
| 22   | 1770A51 Nickel-Plated Zinc Cam Lock, Keyed, Quarter-Turn Clockwise, for 7/64" Maximum Thickness<br><br>Country of Origin: United States<br>Schedule B #: 830130<br>ECCN #: EAR99 NLR                                                                                                                                                                                                                                                                                                                                                                        | 10 EA      | \$6.61     | \$66.10   |
| NOTE | The U.S. Department of Transportation regulates the shipping of line 8. By purchasing from McMaster-Carr Supply Company, you agree not to transport or permit others to transport purchased items except in accordance with U.S. law and any other applicable laws.                                                                                                                                                                                                                                                                                         |            |            |           |
| NOTE | These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations. |            |            |           |
| NOTE | Tracking number(s) for this shipment:<br>CPK005884515                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |            |           |

Number of Packages: 1

Page 3 of 3